

## ABSTRACT

An apparatus for estimating the origin time, the hypocentral distance, and the scale from time-series measured data of the electric field intensity which is observed accompanying a seismic ground motion, comprising a measuring means 21, 22 for measuring the electric field intensity, a data storing means 24, 25 for collecting and storing measured data from the measuring means, and a data analyzing means 26 for analyzing measured data stored in the storing means to detect origin time from the starting time of electric field increase, and to predict the hypocentral distance and the magnitude from the elapsed time from said origin time and said measured data, is provided. The apparatus measures the electric field intensity at a place where both natural noise and artificial noise are sufficiently low, and analyzes the measured data to perform the prediction of the origin time, the hypocentral distance, and the scale based on the detection of the electric field intensity which arises simultaneously with an earthquake.